SEQUENCE LISTING

<110> Mulligan, John T.
Tabone, John C.

<120> METHODS FOR IMPROVING THE SEQUENCE FIDELITY OF SYNTHETIC DOUBLE-STRANDED OLIGONUCLEOTIDES

<130> 340078.401

<140> 09/872,761
<141> 2001-06-01

<160> 15

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 205
<212> DNA
<213> Artificial Sequence

<220>
<223> 205 base pair segment of the lacI gene sequence synthesized using overlapping double-stranded oligonucleotides

<400> 1
aattcataaa ggagatatca tatgaaaccg gtaacgttat acgacgtcgc tgaatacgcc 60
ggcgtttctt accagaccgt ttctagagtg gttaaccagg cttcacatgt tagcgctaaa 120
acccgggaaa aagttgaagc tgccatggct gagctcaact acatcccgaa ccgtgttgcg 180
cagcagctgg ctggtaaaca aagct 205

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<213> Artificial Sequence

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<221> modified_base
<222> (11)...(11)
<223> n = 2,6-diaminopurine

<400> 2
accgtttcta nagtggttaa ccagg 25

<210> 3
<211> 25
<212> DNA

<213> Artificial Sequence

<220>
<223> Modified oligonucleotides containing 2,6 diaminopurine

<221> modified_base
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<400> 3
accgtttcta gantggttaa ccagg 25

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<223> Modified oligonucleotides containing 2,6 diaminopurine

<221> modified_base
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ggaaaaantt gaagctgcca tggct 25

<210> 5
<211> 26
<212> DNA
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<220>
<223> Modified oligonucleotides containing 2,6 diaminopurine

<221> modified_base
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ttncgcagca gctggctggt aaacaa 26

<210> 6
<211> 25
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<220>
<223> Modified nucleotides containing uracil.

<400> 6

tgaagcctgg ttaaccactu tagaa 25

<210> 7
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Modified nucleotides containing uracil.

<400> 7
agctcagcca tggcagcttc aautt 25

<210> 8
<211> 25
<212> DNA
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<223> Modified nucleotides in which uracil was substituted for adenosine.

<400> 8
agctcagcca tggcagcttc auctt 25

<210> 9
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Modified nucleotides in which uracil was substituted for adenosine.

<400> 9
ttgcgcugca gctggctggt aaacaa 26

<210> 10
<211> 197
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<220>
<223> Fragment of the lacI gene sequence.

<400> 10
cataaaggag atatcatatg aaaccggtaa cgttatacga cgtcgctgaa tacgccggcg 60
tttcttacca gaccgtttct agagtggtta accaggcttc acatgttagc gctaaaaccc 120
gggaaaaagt tgaagctgcc atggctgagc tcaactacat cccgaaccgt gttgcgcagc 180
agctggctgg taaacaa 197

<210> 11
<211> 48
<212> DNA

<213> Artificial Sequence

<220>
<223> Control synthetic 48 bp sequence

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<210> 12
<211> 47
<212> DNA
<213> Artificial Sequence

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<223> 48mer containing synthesis byproducts

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<210> 13
<211> 49
<212> DNA
<213> Artificial Sequence

<220>
<223> 48mer containing synthesis byproducts

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<210> 14
<211> 48
<212> DNA
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<220>
<223> 48mer containing synthesis byproducts

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<210> 15
<211> 48
<212> DNA
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<220>
<223> 48mer containing synthesis byproducts

<400> 15
attcgccctt tgccactaag caccagcgaa acggtactta gcgacacg 48